Topic/Objectives: 18-2 Alternative Energy Resources; (1) Explain how water, the sun, wind and hydrogen can all be used to generate electricity; (2) Identify the costs and benefits of hydropower, solar power, wind power and hydrogen fuel, (3) Explain the various technologies utilize water, solar, wind and hydrogen power.			Name:
			Date:
			Period:
Essential Question: What are th	e potentia	I uses and limitations of renewable ene	ergy sources?
Questions:	Notes:		
	Hydropower and Ocean Energy		
	0	is nonpolluting and i	relatively inexpensive, but comes at a
		cost.	
		 Dams and reservoirs interrupt natu 	ral water flow changing and
		 Shifts in the landscape can cause 	
			nutrients are prevented from moving
	· ·	down stream.	differits are prevented from moving
	0		nd
		a	
	-	C	onversion can be used to generate
	·	electricity.	
	Sola	r Energy	
	•		is a natural means
	1	of collecting, storing and distributing th	
	0		uses technology to
		collect, move and store heat from the s	sun.
		° <u>-</u>	
		utilize fluids to n	nove and store heat.
	•	·	are used to convert
		solar energy directly into electrical	.
	0	Weather, cost of production, and produ	uction waste currently
		solar technology.	
	Win	d Power	
	0	Wind power may be utilized by	to
		convert wind's kinetic energy into elect	
		Wind turbines may be found solo or bu	- '
		•	ound offshore where winds are
		greater.	
		While wind turbines have higher	. thev
		tend to be more profitable in the long r	
		Wind power is and h	
		landscape, harm wildlife, and cause noi	_
	1	.aassape, marini milanie, ana caase noi	p

	Hydrogen fuel can be produced from the breakdown of water or other hydrogen-		
	ntaining compounds.		
0	may be used to break water down into oxygen and		
	hydrogen gases.		
۰	Hydrogen may also be extracted from methane, but produces		
	as a byproduct.		
	Hydrogen's abundance,, and ease of transport are major benefits.		
0	Current expense,, and other safety concerns are the		
	biggest hurdles for hydrogen fuel development.		
0	Current development utilizes that		
	reverse electrolysis to provide a means of producing electricity.		
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Summary:			